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## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1. - 4. (Cancelled).

5. (Currently Amended) The An isolated substrate polypeptide for ADAMTS-13 of claim 1- a disintegrin-like and metalloprotease with thrombospondin type-1 motif, 13 (ADAMTS-13), which begins at amino acid 1587 and ends at amino acid 1668 of the amino acid sequence of wild-type human [[VWF]] von Willebrand factor (VWF) depicted in SEQ ID NO: 1 in the Sequence Listing.

6. (Currently Amended) The An isolated substrate polypeptide for ADAMTS-13 of claim 1- a disintegrin-like and metalloprotease with thrombospondin type-1 motif, 13 (ADAMTS-13), which begins at amino acid 1596 and ends at amino acid 1668 of the amino acid sequence of wild-type human [[VWF]] von Willebrand factor (VWF) depicted in SEQ ID NO: 1 in the Sequence Listing.

7. - 8. (Cancelled).

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9. (Currently Amended) The An isolated mutant substrate polypeptide for ADAMTS-13

of claim 7, which has an amino acid sequence homology identity of at least 90% or higher to the

substrate polypeptide for ADAMTS-13 of claim 5 and which retains the specificity for

ADAMTS-13.

10. (Cancelled).

11. (Currently Amended) The-mutant substrate polypeptide-for-ADAMTS-13 according

to claim 7 The substrate polypeptide for ADAMTS-13 according to claim 5 having a tag

sequence attached at the N-terminal and/or at the C-terminal.

12. (Currently Amended) The mutant substrate polypeptide-for ADAMTS-13 according

to claim 11, The substrate polypeptide for ADAMTS-13 or the mutant substrate polypeptide for

ADAMTS-13 according to claim 11, wherein the tag is selected the group consisting of proteins,

peptides, coupling agents, radioactive labels, and chromophores.

13. (Currently Amended) The mutant substrate polypeptide for ADAMTS-13 according

to claim 11-or 12 The substrate polypeptide for ADAMTS-13 or the mutant substrate polypeptide

for ADAMTS-13 according to claim 11, wherein the tag is for immobilization on a solid phase.

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14. (Currently Amended) The substrate mutant polypeptide for ADAMTS-13 according

to claim 13 The substrate polypeptide for ADAMTS-13 or the mutant substrate polypeptide for

ADAMTS-13 according to claim 13, which is immobilized on a solid phase.

15. (Withdrawn) A method for measuring ADAMTS-13 activity in a subject, which

comprises contacting a mutant substrate polypeptide for ADAMTS-13 according to claim 7, with

plasma obtained from a normal subject, followed by analyzing resultant polypeptide fragments to

make a control; and contacting said mutant substrate polypeptide for ADAMTS-13 with plasma

obtained from the subject, followed by analyzing resultant polypeptide fragments in a similar

way and making a comparison with the control.

16. (Withdrawn) A high throughput method for measuring the activity of ADAMTS-13

in plasma from subjects, which comprises employing a mutant substrate polypeptide for

ADAMTS-13 according to claim 7.

17. (Currently Amended) A diagnostic composition for in vitro test testing of the

decrease or deficiency of ADAMTS-13 activity in a patient, comprising mutant-substrate

polypeptide for ADAMTS-13 according to claim 7 the substrate polypeptide for ADAMTS-13

according to claim 5 or 6, or the mutant substrate polypeptide for ADAMTS-13 according to

claim 9.

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18. (Currently Amended) A kit for *in vitro* test testing of the decrease or deficiency of ADAMTS-13 activity in a patient, comprising as the essential component mutant substrate polypeptide for ADAMTS-13 according to claim 7 the substrate polypeptide for ADAMTS-13 according to claim 5 or 6.

19. (Cancelled).

20. (New) A kit for *in vitro* testing of the decrease or deficiency of ADAMTS-13 activity in a patient, comprising as the essential component the mutant substrate polypeptide for ADAMTS-13 according to claim 9.

- 21. (New) A kit for *in vitro* testing of the decrease or deficiency of ADAMTS-13 activity in a patient, comprising as the essential component the mutant substrate polypeptide for ADAMTS-13 according to claim 11.
- 22. (New) A kit for *in vitro* testing of the decrease or deficiency of ADAMTS-13 activity in a patient, comprising as the essential component the mutant substrate polypeptide for ADAMTS-13 according to claim 12.
- 23. (New) A kit for *in vitro* testing of the decrease or deficiency of ADAMTS-13 activity in a patient, comprising as the essential component the mutant substrate polypeptide for ADAMTS-13 according to claim 13.

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24. (New) A kit for in vitro testing of the decrease or deficiency of ADAMTS-13 activity

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in a patient, comprising as the essential component the mutant substrate polypeptide for

ADAMTS-13 according to claim 14.